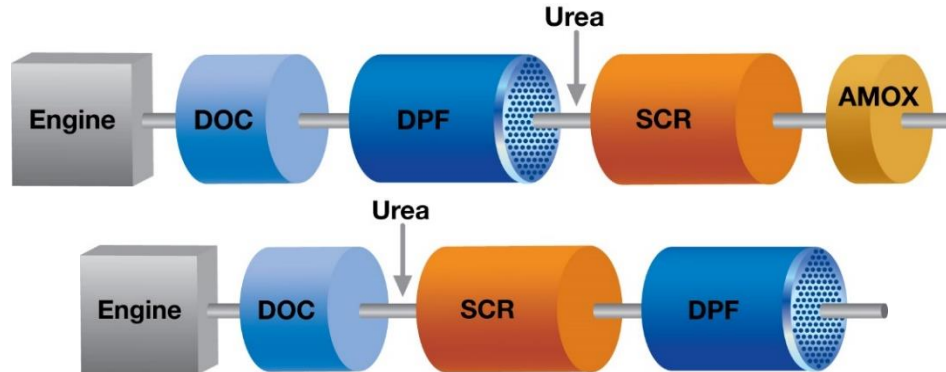


Diesel Emissions Catalysts



DOC (Diesel Oxidation Catalyst)

Removes CO (carbon monoxide), HC (hydrocarbons), and some PM (particulate matter).

- Low light-off temperature
- High sulfur tolerance
- Platinum or Platinum-Paladium depending on application

DPF (Diesel Particulate Filter)

A DPF, or CSF (Catalyzed Soot Filter), traps PM and then uses a patented catalytic technology to help oxidize it.

- Lower regeneration temperature
- Higher passive regeneration
- More efficient active regeneration

SCR (Selective Catalytic Reduction)

Converts NO_x (nitrogen oxides) into water and nitrogen with the use of a urea solution (e.g. AdBlue® by BASF).

- Wide temperature range
- Improved resistance to HC poisoning
- Increased durability

AMOX (Ammonia Oxidation catalyst)

Removes any excess ammonia.

- Optional
- Can be added to rear of the SCR

LNT (Lean NO_x Trap)

Adsorbs NO_x during lean engine operation. During rich operation, NO_x is reduced to nitrogen over the catalyst.

- High NO_x removal activity
- Low light-off temperature

SCR on Filter

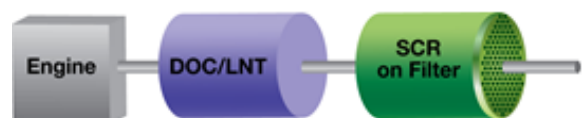
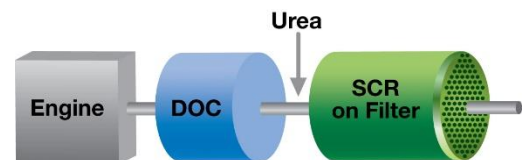
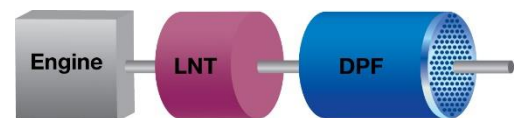
SCR on a DPF for NO_x and PM control on one substrate.

- Durable for active filter regeneration
- Maintains same performance as combination of catalysts
- Can save space and weight

DOC/LNT and SCR on Filter

Controls CO, HC, NO_x and PM with just two substrates. The DOC/LNT generates ammonia for the SCR.

- No urea injection system required
- Can reduce weight and save space
- Can lower backpressure (less CO₂)



About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

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